Extron® Electronics
INTERFACING, SWITCHING AND CONTROL

XTRA™ Series Half-Rack
Audio Power Amplifiers • Setup Guide

> **WARNING: May cause serious injury.** Installation and service must be performed by experienced personnel only. These products must be used with UL approved, grounded, electrical boxes.

This guide provides startup instructions for an experienced installer to set up and operate the XPA 1002 or XPA 2001 series audio power amplifiers. All references are to the XTRA Series Half-Rack User Guide which can be found on **www.extron.com**.

Step 1 — Powering Down Equipment

Be sure that power to the amplifier is turned off first.

> **NOTE:**   Adjust the audio level to ∞ (full attenuation) prior to the amplifier being powered back up in step 5.

Turn off all other equipment and disconnect the power cables. Verify that the amplifier is disconnected from the power source before proceeding.

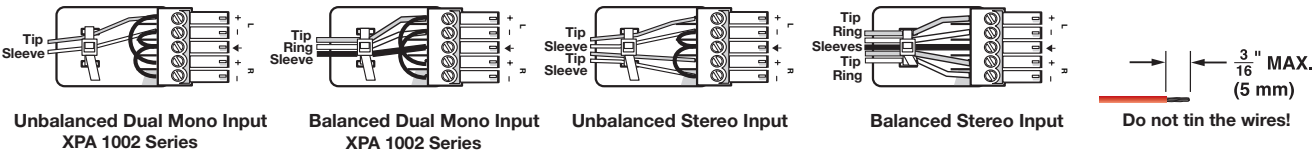## Step 2 — Mounting and Applications

For diagrams of typical application examples, see "Application Examples" in the User Guide. For further mounting instructions, see "Mounting the XTRA Series Amplifier" in the User Guide.

Step 3 — Captive Screw Audio Cable Wiring

> **NOTE:**   Control signal ground pins may be labeled as ⎓, ⬇, or "G". Audio ground pins may be labeled as ⎓ or ⬇. The wiring and function are the same, whichever way your product is labeled.

Wire the source output to the amplifier input 3.5 mm captive screw connectors as shown in the following illustration.
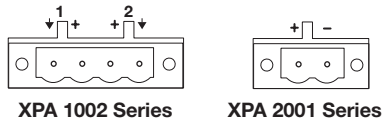
> **NOTE:**   The output power of the XPA 1002 and XPA 1002 Plus can be effectively doubled by using only one source channel and bridging the output. The XPA 1002 and XPA 1002 Plus output 200 watts @ 8 ohms in bridged mode (see "Bridged Mono Output" in the User Guide for wiring instructions when bridging the XPA 1002 or XPA 1002 Plus).

Unbalanced Dual Mono Input XPA 1002 Series   Balanced Dual Mono Input XPA 1002 Series   Unbalanced Stereo Input   Balanced Stereo Input $\frac{3}{16}$ " MAX. (5 mm)   Do not tin the wires!

> **NOTE:**   For mono input on the XPA 2001, only the left channel needs to be wired; no jumpering to the right channel is needed. The left and right inputs of the XPA 2001 are summed internally to mono.
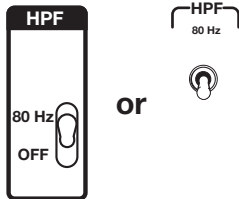
Step 4 — Speaker Wiring

Wire the speakers to the output connector of the amplifier using the included 4-pole (XPA 1002 series) or 2-pole (XPA 2001-70V and XPA 2001-100V) captive screw connector as shown to the right.

XPA 1002 Series   XPA 2001 Series
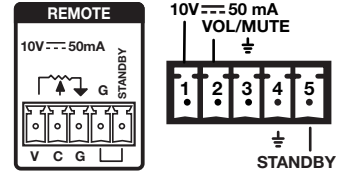
Step 5 — Setting the High Pass Filter (HPF)

On the XPA 2001-70V and XPA 2001-100V models, use a Tweeker to toggle the high pass filter switch between off (no filtering) and 80 Hz (default). Setting the switch to 80 Hz prevents the saturation of speaker input transformers by low frequency signals.

> **NOTE:**   The high pass filter switch may be labeled one of two ways (see the images to the right). The function is the same, whichever way your product is labeled.

Step 6 — Control Wiring

On the XPA 1002, XPA 1002 Plus, XPA 2001-70V, and the XPA 2001-100V models, the 3.5 mm, 5-pin captive screw remote control port (shown to the right) is used to control volume and standby mode through contact closure. Standby mode turns off all output, although the XPA is still receiving power. For detailed wiring instructions, see the User Guide.

NOTES:

- Set the volume control on the connected control device to maximum and ensure that the amplifier is not forced into standby mode via the standby pin.

- The remote control port may be labeled one of two ways (see images to the right). The wiring and function are the same, whichever way your product is labeled.

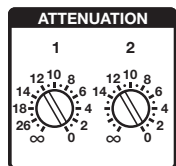## Step 7 — Powering On Equipment

ATTENTION: The amplifier must be powered on last.

Reconnect all power cables and switch on all other equipment before powering on the power amplifier. The front panel power LED of the amplifier lights green.
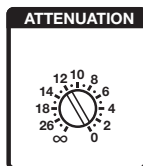

Step 8 — Adjusting Attenuation

Adjust the audio attenuation using the rear panel potentiometers as shown below (see "Rear Panel Features and Operation" in the User Guide for more information).
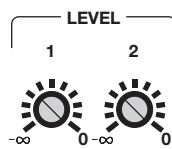
NOTE: On some models, this adjustment is referred to as "level". The function is the same, whichever way your product is labeled.

| XPA 1002 Series | XPA 2001 Series | XPA 1002 | XPA 2001 Series |

Step 9 — Checking the LEDs

Check the limiter/protect and signal LEDs located on the front and rear panels if problems are encountered (see "Rear Panel Features and Operation" in the User Guide for more information).